

# THE UNITED STATES OF AMERICA

To art to whom these presents shar come: Montana Agricultural Experiment Station

MOCCOUS, THERE HAS BEEN PRESENTED TO THE

# Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR MEDITING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE SWE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OF BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321

#### WHEAT, COMMON

'Vida'

In Costimony Marrot, I have hereunto set my hand and caused the seal of the Flant Anciety Frotection Office to be affixed at the City of Washington, D.C. this twenty-ninth day of September, in the year two thousand and six.

DOM L

Commissioner Plant Variety Protection Office Agricultural Marketing Service Agriculturo

## Application for Plant Variety Protection Certificate: Vida Wheat

19A. Origin and Breeding History of the Variety

Vida was derived from an F<sub>4</sub> plant selection from the cross 'Scholar' (Pl 607557)/'Reeder' (PI 613586). Scholar is a normal height line with semi-solid stems and good dryland yield potential. Reeder is a semi-dwarf line, and is notable for maintaining green leaf color later in the summer than other wheat lines grown in Montana. Reeder has high yield potential in dryland environments. The breeding procedure for Vida included single seed descent without selection in the F<sub>2</sub> and F<sub>3</sub> generations, followed by subsequent selection for height, heading date, delayed flag leaf senescence, and vigor in space-planted F4 head rows. F<sub>5</sub> head rows were evaluated for height, heading date, time of flag leaf maturity, uniformity, grain protein, and apparent yield potential. Selected rows were entered into a single row replicated yield trial in Bozeman MT and evaluated for grain yield, grain protein, and dough mixing properties. Superior lines from this nursery, including Vida, were entered into a replicated yield trial planted at four dryland Montana locations as MT 0245 in 2002. The best lines from this nursery were tested alongside currently grown varieties and additional experimental lines in a yield trial conducted at ten Montana locations. In addition, Vida was tested in the Uniform Regional Hard Red Spring Wheat Nursery in 2004 and 2005 under the experimental number MT 0245.

Vida has been observed for three generations of increase and is stable and uniform. Variants that are more than one spike taller than the modal plant height have been observed in some environments at a frequency of 0.01%.

## 19B. Statement of Distinctness

Comparison of Vida to other varieties grown in Montana is shown in Table 1 (Section 19B). The variety most similar to Vida is Reeder. Based on thirty location/years of testing, Vida differs significantly (P , 0.05) from Reeder for grain yield, test weight, heading date, and plant height. These differences are slight and would be difficult to quantify under most field conditions. The most obvious difference between Reeder and Vida is that Vida has semi-solid stems due to the presence of a major gene for stem solidness. On a numerical scale of 5-25, where 5 is hollow and 25 is solid, Vida had an average score over six environments of 11.6 versus a score of 6.3 for Reeder (P < 0.01) (Table 2, Section 19B). The varieties Outlook and McNeal are distinguishable from Vida in that they have hollow stems and red chaff color. Hank is distinguishable due to having earlier heading and shorter plant height (P < 0.01 for both traits). Scholar has similar solid stem scores as Vida, but is significantly taller and later to head (P < 0.01 for both traits). Thus, Vida is distinct from other varieties in our area.

The name Vida was checked with the Seed Regulatory and Testing Branch and there were no conflicts with other names.

Mill and bake data is shown in Table 3 (Section 19D). Vida is most similar to Reeder in terms of mill and bake quality.

TABLE OF PAIRED T-TEST RESULTS

GRAIN YIELD (BU/AC)

REFERENCE MEAN: MT 0245 66,5 (N= 30)

ID .	NAME	ACTUAL	NO.	MEAN	T-PAIRED	P-VALUE
		MEAN	OBS	DIFF	VALUE	
			<del></del>		<b></b>	
CI 10003	THATCHER	48.7	30	-17.8	-10.0	.000
CI 13596	FORTUNA	57.5	30	-9.0	-5.6	.000
PI574642	MCNEAL	60.6	30	-5.9	-4.0	.000
PI592761	ERNEST	5 <b>7.1</b>	30	-9.4	-7.7	.000
PI607557	SCHOLAR	59.5	30	-6.9	-5.6	.000
ND 695	Reeder	63.3	30	-3.2	-2.5	020
BZ992588	Conan	59.1	3-0	-7.3	-5.3	000
BZ992322	HANK	65.2	30	-1.3	9	.369 🦹
PI632252	OUTLOOK	64.0	30	-2.4	-1.8	.090 🕽
PI633974	CHOTEAU	61.8	30	-4.7	-4.2	.000
AGRIPRO1	NORPRO	63.0	30	-3.4	-2.2	.036
AGRIPRO2	KNUDSON	60.3	30	-6.2	-3.3	003

TEST WEIGHT (LB/BU)

REFERENCE MEAN: MT 0245 59.0 (N= 30)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 13596 PI574642 PI592761 PI607557	MCNEAL ERNEST SCHOLAR Reeder Conan HANK OUTLOOK	57.0 60.2 58.6 59.6 60.1 59.9 59.4 57.7 58.2 59.6	30 30 30 30 30 30 30 30 30 30 30	-2.0 1.24 .6 1.1 .9 .4 -1.38	-5.7 4.4 -1.4 2.8 4.5 5.3 1.9 -6.0 -3.9 3.2	.000 .000 .166 .010 .000 .000 .071 .000
AGRIPRO1 AGRIPRO2	NORPRO	58.8 59.8	30 30	. 8 2 . 8	8 4.2	.413 .000

HEADING DATE (JULIAN DAYS: 176 = JUNE 25)

REFERENCE MEAN: MT 0245 176.7 (N= 30)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALÜE
CI 10003	THATCHER	179.2	30	2.5	9.0	.000
CI 13596	FORTUNA	175.9	. 30	8	-3.4	.002
PI574642	MCNEAL	177.3	30	.6	2.7	.012
PI592761	ERNEST	176.3	30	4	-2.5	.018
PI607557	SCHOLAR	177.4	30	.7	4.6	.000
ND 695	Reeder	175.5	30	-1.2	-6.8	.000
BZ992588	Conan	175.3	30	-1.4	-6.7	.000
BZ992322	HANK	174.3	30	-2.4	-9.6	.000
PI632252	OUTLOOK	178.0	30	1.3	6.0	.000
PI633974	CHOTEAU	175.7	30	-1.0	-5.1	.000
AGRIPRO1	NORPRO	176.0	30	7	-3.6	.001
AGRIPRO2	KNUDSON	176.7	30	.0	.0	.973

#### PLANT HEIGHT (INCHES)

REFERENCE MEAN: MT 0245 33.1 (N= 30)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALÜE
CI 13596	and the second s	40.7 37.9	30 30	7.6 4.8	13.7 10.7	.000
PI574642 PI592761	ERNEST	33.1 37.6	30 30	.0 4.5	0 12.0	.983 .000
	Reeder	36.5 34.1	30 30	3.4 1.0	7.9 3.3	.000
BZ992588 BZ992322 PI632252	HANK	30.8 30.8 33.1	30 30	-2.3 -2.3	-8.5 -6.8	.000
PI633974 AGRIPRO1		31.2 30.5	30 30 30	.0 -1.9 -2.6	.1 -6.7 -8.1	.924 .000 .000
AGRIPRO2		32.3	30	8	-2.4	.022

### GRAIN PRROTEIN (%)

REFERENCE MEAN: MT 0245 14.7 (N= 30)

ID	NAME	ACTUAL MEAN	NO. OBS	MEAN DIFF	T-PAIRED VALUE	P-VALUE
CI 10003	THATCHER	15.4	30	.7	3.2	.003
CI 13596	FORTUNA	14.8	30	.2	1.1	.296
PI574642	MCNEAL	14.9	30	. 2	1.2	.235
PI592761	ERNEST	15.4	30	. 8	4.6	.000
PI607557	SCHOLAR	15.5	30	9	4.1	.000
ND 695	Reeder	15.0	30	.3	1.9	.064
BZ992588	Conan	15.0	30	. 4	3.3	.003
BZ992322	HANK	14.9	30	.3	1.5	.144
PI632252	OUTLOOK	14.6	30	1	4	.713
PI633974	CHOTEAU	14.9	30	.2	1.4	.164
AGRIPRO1	NORPRO	14.5	30	2	-1.0	.316
AGRIPRO2	KNUDSON	14.7	30	.0	. 2	.872

Table 2, 2003-2005 STEM SOLID RATINGS (5=HOLLOW,25=VERY SOLID) FROM THE ADVANCED SPRING WHEAT NURSERY GROWN AT BOZEMAN

	2003	03	2004	04	20	2005
PEDIGREE	DRY	IRR	DRY	<u>R</u>	DRY	RR
MCNEAL	6.5	6.4	6.8	5.7	7.3	6.1
THATCHER	9.6	6.5	7.4	5.4	9.8	8.9
FORTUNA	19.8	18.3	19.7	18.6	18.5	13.3
ERNEST	16.3	17.2	18.3	12.2	18.8	11.4
SCHOLAR	14.9	13.6	12.8	13.0	16.4	9.4
Conan	13.5	9.5	10.6	9.8	9.0	7.5
Reeder	9.9	6.9	8.9	5.1	6.9	5.3
OUTLOOK	8.3	7.3	7.0	5.7	7.3	9.9
CHOTEAU	23.9	21.7	20.8	21.9	18.5	19.7
HANK	9.0	7.5	8.2	6.9	8.4	7.5
MT0245	13.0	12.1	11.1	8.1	16.1	9.4

2003-2005 SAWFLY DAMAGE RATINGS FROM SOME OFFSTATION SPRING WHEAT NURSERIES GROWN IN NORTH-CENTRAL MONTANA

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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

Exhibit C

**OBJECTIVE DESCRIPTION OF VARIETY** 

	Wheat ( <i>Tr</i>	iticum spp.)			
NAME OF APPLICANT (S)  Montana Agricultural	TEMPORARY OR EXPERIMEN	TAL DESIGNATION	VARIETY NAME	1.	
Experiment Station	MT0245			Vida	
ADDRESS (Street and No. or RD No., City, State, Zip Code and Co	ountry)	· .	FOR OFFICIAL	USE ONLY	
202 Linfield Hall Montana State University		• .	PVPO NUMBER		
Bozeman, MT 59717			6	200600	1225
· ·			<u> </u>		7
PLEASE READ ALL INSTRUCTIONS CAREFULLY					<del></del>
Place the appropriate number that describes the vari					
when number is either 99 or less or 9 or less respect should be determined from varieties entered in the sa					
	Plea				
your application.					
1. KIND:		2. VERNALIZATION:			
1 = Common	•	1 1 = Spring			
2 = Durum		2 = Winter 3 = Other	Ī		
3 = Club 4 = Other (Specify)		3 – Other	(Specify)		
A COLEGERIUS ANTHOCYANIAL		4. JUVENILE PLANT	GPOWTH:		
3. COLEOPTILE ANTHOCYANIN:	* .	3 1 = Pros		= Semi-Erect	3 = Erect
1 = Absent 2 = Present			oudie 2	- Jenn-Liect	) - LIBOT
5. PLANT COLOR: (boot stage)		6. FLAG LEAF: (boot s	stage)		
1 = Yellow-Green		1 = Erect	2	= Recurved	
2 = Green 3 = Blue-Green		1 = Not Tv	visted 2	= Twisted	
		1 = Wax A	Absent 2	= Wax Present	
7. EAR EMERGENCE:					
1 7 7 Number of Days (Average)					
1 Number of Days Earlier Than	Outlook				
Same As *					
- '	McNeal Fortuna				
	Relative to a PVPO-Approve	d Commercial Variety Gro	wn in the Same 7	rial	
8. ANTHER COLOR:					
1 1 = Yellow 2 = Purple		-			Charles and the same of the sa

9. PLANT	HEIGHT: (from soil to top of h	nead, excluding awns)				·
2	cm (Average)	Choteau		*	•	
<u> </u>	Same As	McNea1		*		
1	cm Shorter Than	Reeder		*		
	HANNEY					
10. STEM:		•		NTERNODE		
A. AN	ITHOCYANIN  1 = Absent 2 = Present			2 1 = Hollow	2 = Semi-Solid	3 = Solid
لبا	1 - Absent 2 - Fresent			4 Number of Node		
B. WA	AXY BLOOM		E. f	PEDUNÇLE		•
1	1 = Absent 2 = Present	.*			Recurved 3 = Sem	ni-Erect
		•		4 2 cm Length		
C. HA	NRINESS (last internode of ra	chis)	F	AURICLE		
	1 = Absent 2 = Present			1 Anthocyanin:	1 = Absent	2 = Present
			.	1 Hair:	1 = Absent	2 = Present
11. HEAD:	(At Maturity)					
	NSITY	•	C. (	CURVATURE	•	
2	1 = Lax		[	2 1 = Erect		
<u>{</u>	2 = Middense (Laxidense) 3 = Dense		ı	2 = Inclined 3 = Recurved		
B. SH	IAPE		D. <i>I</i>	AWNEDNESS		
1	1 = Tapering 2 = Strap		[	1 = Awnless 2 = Apically Awn	letted	
	3 = Clavate 4 = Other (Specify)			3 = Awnletted 4 = Awned		
				<del></del>		
	ES: (At Maturity)			BEAK WIDTH	e*	
A. CO	1 = White		 1	2 1 = Narrow		
1	2 = Tan 3 = Other (Specify)		l	2 = Medium 3 = Wide		
B. SH	OULDER		F. C	SLUME LENGTH		
[5]	1 = Wanting 2 = Obliqu	e	ſ	2 1 = Short (ca. 7 :		4.
لـــا	3 = Rounded 4 = Square 5 = Elevated 6 = Apicula		·	2 = Medium (ca. 3 = Long (ca. 9 r		e.
	7 = Other (Specify)			MOTIL		
	OULDER WIDTH		G. 1	MIDTH 2 1 = Narrow (ca. :	? mm)	
2	1 = Narrow 2 = Medium		l	2 1 = Narrow (ca. 3 2 = Medium (ca. 3 = Wide (ca. 4 r	3.5 mm)	
D. BE	3 = Wide		•н. е	O = Wide (ca. 4)		
. ·	1 = Obtuse		[]	1 = Not Present	·	
[33]	2 = Acute 3 = Acuminate	·	Ľ	2 = Present		

13. SEE	D:			
Α. :	SHAPE		E. COLOR	
1	1 = Ovate 2 = Oval 3 = Elliptical		1 = White 2 = Amber 3 = Red 4 = Other (Specify)	
В	CHEEK .		F. TEXTURE	
1	1 = Rounded 2 = Angular		1 = Hard 2 = Soft 3 = Other (Specify)	
c.	BRUSH		G. PHENOL REACTION (See Instructions)	
2	1 = Short 1 = Not Collared 2 = Medium 2 = Collared 3 = Long		1 = Ivory 4 = Dark Brown 2 = Fawn 5 = Black 3 = Light Brown	
D.	CREASE		H. SEED WEIGHT	
2	1 = Width 60% or less of Kernel 2 = Width 80% or less of Kernel 3 = Width Nearly as Wide as Kernel		3 2 g/1000 Seed (whole number only)	
2	1 = Depth 20% or less of Kernel 2 = Depth 35% or less of Kernel 3 = Depth 50% or less of Kernel		I. GERM SIZE  1 = Small 2 = Midsize 3 = Large	
14. DIS	EASE: PLEASE INDICATE THE SPECIFIC RACE OR STRAI	n TE		
	(0 = Not Tested 1 = Susceptible	2 = 1	Resistant 3 = Intermediate 4 = Tolerant)	
3	Stem Rust (Puccinia graminis f. sp. tritici)	녣	Leaf Rust (Puccinia recondita f. sp. tritici)	-
3	Stripe Rust (Puccinia striiformis)	녣	Loose Smut ( <i>Ustilago tritici</i> )	
3	Tan Spot (Pyrenophora tritici-repentis)		Flag Smut (Urocystis agropyri)	
0 3	Halo Spot (Selenophoma donacis)	0	Common Bunt (Tilletia tritici or T. laevis)	•
[3]	Septoria nodorum (Glume Blotch)		Dwarf Bunt (Tilletia controversa)	
	Septoria avenae (Speckled Leaf Disease)	0	Karnal Bunt (Tilletia indica)	
0	Septoria tritici (Speckled Leaf Blotch)	띧	Powdery Mildew (Erysiphe graminis f. sp. tritici)	
1	Scab (Fusarium spp.)	힏	"Snow Molds"	
0	"Black Point" (Kernel Smudge)	0	Common Root Rot (Fusarium, Cochliobolus and Bipolaris spp	.)
0	Barley Yellow Dwarf Virus (BYDV)	0	Rhizoctonia Root Rot (Rhizoctonia solani).	-
0	Soilborne Mosaic Virus (SBMV)		Black Chaff (Xanthomonas campestris pv. translucens).	
0	Wheat Yellow (Spindle Streak) Mosaic Virus	0	Bacterial Leaf Blight (Pseudomonas syringae pv. syringae)	
0	Wheat Streak Mosaic Virus (WSMV)		Other (Specify)	
	Other (Specify)		Other (Specify)	_
	Other (Specify)		Other (Specify)	_
	Other (Specify)		Other (Specify)	_
15. INS	. O	t	3 = Intermediate 4 = Tolerant)	· · · · · · · · · · · · · · · · · · ·
	PLEASE SPEC	IFY:	BIOTYPE (where needed)	
0	Hessian Fly (Mayetiola destructor)		Other (Specify)	<del></del>
3	Stem Sawfly (Cephus spp.)		Other (Specify)	
o	Cereal Leaf Beetle (Oulema melanopa)		Other (Specify)	
	Trategian Office using Microsoft Word 2003			Page 3 of 5

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							Exhibit C (Wheat)
15. INSECT: (continued)	(0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Intermediate	4 = Tolerant)	,	
		PLEASE :	SPECIFY BIOTYPE	(Where Needed)			
1 Russian Aphid (D	iuraphis noxia)		Other	(Specify)			
0 Greenbug (Schiza	aphis graminum)		Other	(Specify)			
0 Aphids	•		Other	(Specify)			

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

19D. Additional Information

2003-2004 MILLING AND BAKING QUALITY SUMMARY FOR MT 0245 COMPARED TO SELECTED SPRING WHEATS IN THE ADVANCED SPRING WHEAT NURSERY GROWN ACROSS MONTANA (8 LOCATION MEANS)

Table 3,

As Care :			DANE BAKE	LOAF	CRUMB
R 16.4 13.6 68.5 0.42 R 17.6 14.4 63.8 0.45 16.5 13.8 68.3 0.45 16.6 13.9 64.1 0.44 17.2 14.4 67.6 0.42 17.5 14.7 68.0 0.45 16.5 13.9 65.9 0.39 16.5 13.4 65.1 0.43 16.0 13.4 66.5 0.44 16.5 13.9 65.8 0.40 16.5 13.9 65.8 0.40	TOLERANCE MIXTIME	ABS.	IE WAT	ш	GRAIN SCORE
R 17.6 14.4 63.8 0.45 16.5 13.8 68.3 0.45 16.6 13.9 64.1 0.44 17.2 14.4 67.6 0.42 17.5 14.7 68.0 0.45 16.5 13.9 65.9 0.39 16.5 13.4 65.1 0.43 16.0 13.4 66.5 0.44 16.5 13.9 65.8 0.40 16.5 13.9 65.8 0.40	(IMIII)	-	· ·	(::)	
16.5 13.8 68.3 0.45 16.6 13.9 64.1 0.44 17.2 14.4 67.6 0.42 17.5 14.7 68.0 0.45 16.5 13.9 65.9 0.39 16.5 13.4 65.1 0.43 16.0 13.4 66.5 0.44 16.3 13.9 65.8 0.40		wy w	73.4	1171.4	333
16.5     13.8     68.3     0.45       16.6     13.9     64.1     0.44       17.2     14.4     67.6     0.42       17.5     14.7     68.0     0.45       16.5     13.9     65.9     0.39       16.5     13.4     65.1     0.43       16.7     13.8     66.8     0.42       16.0     13.4     66.5     0.44       16.5     13.9     65.8     0.40       16.5     13.4     63.0     0.46       16.5     13.4     63.0     0.46       16.5     13.4     63.0     0.46       16.5     13.4     63.0     0.46	5.3 4.2	65.9	9 76.4	1249.9	3.8
16.6     13.9     64.1     0.44       17.2     14.4     67.6     0.42       17.5     14.7     68.0     0.45       16.5     13.9     65.9     0.39       16.5     13.4     65.1     0.43       16.7     13.8     66.8     0.42       16.0     13.4     66.5     0.44       16.5     13.9     65.8     0.40       16.5     13.9     65.8     0.40       16.5     14.0     66.5     0.46       16.5     14.0     66.5     0.46       16.5     14.0     66.5     0.46       16.6     13.4     63.0     0.46       16.7     13.8     66.5     0.40       16.8     14.0     66.5     0.46	3.6 3.1	63.1	5 72.6	1153.1	3.6
17.2     14.4     67.6     0.42       17.5     14.7     68.0     0.45       16.5     13.9     65.9     0.39       16.5     13.4     65.1     0.43       16.7     13.8     66.8     0.42       16.0     13.4     66.5     0.44       16.5     13.9     65.8     0.40       16.5     13.4     63.0     0.46       16.5     14.0     66.5     0.46	6.1 6.8		11.8 77.0	1235.8	
17.5     14.7     68.0     0.45       16.5     13.9     65.9     0.39       16.5     13.4     65.1     0.43       16.7     13.8     66.8     0.42       16.0     13.4     66.5     0.44       16.5     13.9     65.8     0.40       16.3     13.4     63.0     0.46       16.5     14.0     66.5     0.46	5.1 3.9			1227 6	×
16.5     13.9     65.9     0.39       16.5     13.4     65.1     0.43       16.7     13.8     66.8     0.42       16.0     13.4     66.5     0.44       16.5     13.9     65.8     0.40       16.3     13.4     63.0     0.46       16.5     14.0     66.5     0.46	4.5 3.2			1179.4	5.0
16.5 13.4 65.1 0.43 16.7 13.8 66.8 0.42 16.0 13.4 66.5 0.44 16.5 13.9 65.8 0.40 16.3 13.4 63.0 0.46	3.8 3.1			1111.9	2.8
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16.3 13.4 63.0 0.	4.6 3.2			1153.0	3.4
46.6 44.0 66.5	5.0 3.8			1152 4	2.7
0.01	6.5 7.2	•	7.7	1148.8	3.3
NURSERY AVERAGE 16.6 13.9 66.2 0.44 4.9	4.9	64.0 7	7.5 74.3	1177.0	4.6

REPRODUCE LOCALLY. Include form number and edition date on all	reproductions F	ORM APPROVED - OMB No. 0581-0055
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE  EXHIBIT E  STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).	
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
Montana Agricultural Experiment Statio	OR EXPERIMENTAL NUMBER  N MT 0245	Vida
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
202 Linfield Hall Montana State University Bozeman MT 59717	406 994 3683	406 994 6579
	7. PVPO NUMBER	200600225
8. Does the applicant own all rights to the variety? Mark an "X" in the	appropriate block. If no, please expla	in. 7 YES NO
9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.  YES  NO		
10. Is the applicant the original owner? YES NO if no, please answer one of the following:		
a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?  YES  NO  If no, give name of country  b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?  YES  NO  If no, give name of country		
11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):		
The owner is a state agricultural experiment station.		
	•	
	·	
PLEASE NOTE:		
Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:		
<ol> <li>If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.</li> </ol>		
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.		
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.		
The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.		

According to the Papenvork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director. Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.